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Result
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Maximum Match 100%
Listing first 45 summaries
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Maximum DB
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Perfect score:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Total number of hits satisfying chosen parameters:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Searched:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   OM protein - protein search, using sw model
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                                                                                                                                                                                                                                                                                                                                                                                                    A_Geneseq_36:*

1: /SIDS1/gcgda'
2: /SIDS1/gcgd'
4: /SIDS1/gcgd'
4: /SIDS1/gcgd'
5: /SIDS1/gcg'
6: /SIDS1/gc'
7: /SIDS1/gc'
6: /SIDS1/gc'
10: /SIDS1/gc'
10: /SIDS1/gc'
11: /SIDS1
11: /SIDS
13: /SIDS
14: /SIC'
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15: /SIC'
16: /SI'
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21:
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   55
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77
110
111
112
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                                                                                                                                                                                                                                                                                                                                  and is derived by analysis of the total score distribution.
   384
367
363
172
172
172
103
103.5
102.5
102.5
101.5
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seq length: 2000000000
   100
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94
44
44
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27
27
26
26
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                                                                                                                                                                                                                                                                                                                                                                                                  SIDS1/gcgdata/geneseq/geneseqp/AA1980.DAT:

SIDS1/gcgdata/geneseq/geneseqp/AA1981.DAT:

SIDS1/gcgdata/geneseq/geneseqp/AA1982.DAT:

SIDS1/gcgdata/geneseq/geneseqp/AA1983.DAT:

SIDS1/gcgdata/geneseq/geneseqp/AA1985.DAT:

SIDS1/gcgdata/geneseq/geneseqp/AA1985.DAT:

SIDS1/gcgdata/geneseq/geneseqp/AA1985.DAT:

SIDS1/gcgdata/geneseq/geneseqp/AA1985.DAT:

SIDS1/gcgdata/geneseq/geneseqp/AA1989.DAT:

SIDS1/gcgdata/geneseq/geneseqp/AA1989.DAT:

SIDS1/gcgdata/geneseq/geneseqp/AA1990.DAT:

SIDS1/gcgdata/geneseq/geneseqp/AA1991.DAT:

SIDS1/gcgdata/geneseq/geneseqp/AA1993.DAT:

SIDS1/gcgdata/geneseq/geneseqp/AA1993.DAT:

SIDS1/gcgdata/geneseq/geneseqp/AA1995.DAT:

SIDS1/gcgdata/geneseq/geneseqp/AA1995.DAT:

SIDS1/gcgdata/geneseq/geneseqp/AA1996.DAT:

SIDS1/gcgdata/geneseq/geneseqp/AA1996.DAT:
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Gapop 10.0 ,
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384
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Copyright (c) 1993 - 2000 Compugen Ltd
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   666
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W62829
W62830
W62831
R20181
R20181
W62832
Y58500
Y30795
W90342
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Y68784
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11.213 Million cell updates/sec
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Gossypium hirsutum
HHV8 ORF 73 protei
A human trichohyal
G. max truncated S
G. max SBP2 protei
T. gondii immunoge
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Macadamia integrif
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W31186	Y57449	74	P70867	2011	Y20119	W72759	W30763	W93954	Y22191	R60054	W03626	W03627	Y58633	W62835	Y20114	Y20115	R68838	R27530	Y54319	Y55933	W55444	W20685	W55301	R70491	W90339	Y07067	34	5432	8526	Y55932	5593	t.n
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ALIGNMENTS

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W62828
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       WPI; 1998-377279/32.
N-PSDB; V42310.
                               Bower NI, Goulter KC,
                                                                                                02-JUL-1998.
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                                                                                                                                                                                                                                                                     W62828 standard; Protein; 666 AA
                                                                20-DEC-1996;
                                                                                                                 WO9827805-A1.
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                                               (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY
                                                                               22-DEC-1997;
                                                                                                                                                          Peptide
                                                                                                                                                                                                 antimicrobial protein; infestation; control
                                                                                                                                                                                                                                   (first entry)
                                                                96AU-0004275
                                                                               97WO-AU00874
                                                                                                                                       /note= "signal peptide" 29..666
                                                                                                                                                                  Location/Qualifiers
                                                                                                                                /note= "mature protein"
                               Green JL,
                               Manners JM,
                              Marcus JP;
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RESULT
W62829
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Best Local S
Matches 69
Sequence
                     animals.
                             The sequence is that of an antimicrobial protein which can be used to control microbial infestations in plants and ma
                                                             Claim 1; Page 39-41; 96pp; English
                                                                                   Novel anti-microbial protein from e.g. Macadamia useful for controlling microbial infestations of
                                                                                                                      WPI; 1998-377279/32.
N-PSDB; V42311.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 1; Page 34-36; 96pp;
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                                                                                                                                                                          (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY
                                                                                                                                                                                               20-DEC-1996;
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                                                                                                                                                                                                                                                                 WO9827805-A1
                                                                                                                                                                                                                                                                                                 Protein
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es 69; Conservative
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Pred. No. 2.9e-30;
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                                                                                   integrifolia -
plants or mamma
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                               mammalian
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Query Match

95.68;

Score 367;

DB 19;

Length 666;

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Query Match
Best Local Similarity
Thiches 66; Conserv
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Pred. No. 3.1e-28;
0; Mismatches 3;
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1; Mismatches 2;
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Best Local S
Matches 32
 11-JUN-1990;
                      07-JUN-1991;
                                                                                                      Cocoa; flavour; vicilin; seed storage protein
                                                              WO9119801-A.
                                                                                   Theobroma cacao
                                                                                                                          Sequence encoded by 67 kD T. cacao protein cDNA
                                                                                                                                                 16-APR-1992
                                                                                                                                                                                         R20181 standard; Protein; 566 AA
                                                                                                                                                                                                                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                The sequence is that of an antimicrobial protein which can be used to control microbial infestations in plants and mammalian
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Novel anti-microbial protein from e.g. Macadamia integrifolia useful for controlling microbial infestations of plants or man
                                          26-DEC-1991
                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 1; Page 47-49; 96pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 1998-377279/32
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                                                                                                                                                                                                                                                                -----EERMKEED 68
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Goulter KC,
                                                                                                                                                                                                                                                                                                                                                                                   525 AA;
                                                                                                                                                (first entry)
90GB-0013016
                      91WO-GB00914
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     97WO-AU00874
                                                                                                                                                                                                                                                                                                                                        44.8%; Score 172; DB 19; 31.4%; Pred. No. 1.3e-09;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Green JL,
                                                                                                                                                                                                                                                                                                                               Mismatches
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RESULT
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Best Local S
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The inventors claim a 67 kD and 31 kD T. cacao protein, and fragments, and encoding DNAs. The 47 kD and 31 kD proteins are derived from the 67 kD precursor. T. cacao protein cDNA was detected in a cDNA library prepared from immature cocca beans RNA using a probe based on the AA sequence of a CNBr peptide common to the 47 kD and 31 kD polypeptides. Homology searches revealed close homologies between the 67 kD polypeptide and the vicilins, which are seed storage proteins.
The sequence is that of an antimicrobial protein which can
                                                       Claim 1; Page 49-51; 96pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Recombinant cocoa proteins - are responsible for flavour in cocoa beans and produced in large quantities using yeast and bacterial expression vectors
                                                                                                           Novel anti-microbial protein from e.g. Macadamia integrifolia - useful for controlling microbial infestations of plants or mammu
                                                                                                                                                                                                   WPI; 1998-377279/32.
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                                                                                                                                                                                                                                                       Bower NI,
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                                                                                                                                                                                                                                                       Goulter KC,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 infestation; control.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Deakin EA,
                                                                                                                                                                                                                                                    Green JL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 172; DB 13;
Pred. No. 1.4e-09;
0; Mismatches 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ΑA
                                                                                                                                                                                                                                                       Manners JM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ashton S;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DB 13;
                                                                                                                                                                                                                                                       Marcus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 566;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
                                                                                                                 mammals
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         36;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     46
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22 × 60
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Y58500
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Best Local S
Matches 32
                         herpesvirus 8 in a biological sample using peptides representative of dominant antigenic regions of HHV8. The method comprises contacting one or more isolated, immunogenic HHV8 peptides with an antibody-containing biological sample, and detecting the formation of a complex between the peptide and the antibody. The presence of a peptide-antibody complex indicates the presence of human herpesvirus 8. The detection of HHV8 infection can be used to diagnose AIDS-associated Kaposi's sarcoma. The HHV8-specific antibodies are useful therapeutically when for the passive immunisation of a human against HHV8 infection, thereby reducing HHV8 related disease. The detection assays are highly specific, sensitive and accurate. Early detection and treatment of Kaposi's sarcoma could
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        be used animals.
              diminish the severity of symptoms
                                                                                                                                                                                                                                                                            Claim 2; Page 59-62; 68pp; English.
techniques
                                                                                                                                                                                                                                                 Sequences Y58480-Y58532
                                                                                                                                                                                                                                                                                                        New methods and compositions for the detection of human herpesvirus
                                                                                                                                                                                                                                                                                                                                         WPI; 2000-097142/08
                                                                                                                                                                                                                                                                                                                                                                                                                                 26-MAY-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Misc-difference
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Y58500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
                                                                                                                                                                                                human herpes virus type 8 (HHV8, a gammaherpesvirus). HHV8 plays an important role in the pathogenesis of AIDS-related Kaposi's sarcoma. The invention relates to a novel method of detecting the presence of human
                                                                                                                                                                                                                                                                                                                                                                                                   (USSH ) US DEPT HEALTH & HUMAN SERVICES
                                                                                                                                                                                                                                                                                                                                                                                                                                                              26-MAY-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WO9961909-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human herpesvirus type
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      HHV8 ORF 73 protein, SEQ ID NO:21.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       10-APR-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           HHV8; detection; diagnosis; Kaposi's
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Y58500 standard; Protein; 1162 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       136 grpekkgqcvrecrekygenpwrgereeeaeeee
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           54
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      78
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    hrpedpgrryeecqqec--rqqeerqqpqcqqrclkrfeqeqqqsqrqfqecqqhchqqe 135
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        -----EERMKEED 68
                                                                                                                                                                                                                            herpes virus type 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ç
   could
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A
                                                                                                                                                                                                                                                                                                                                                                                                                                 98US-0086695
                                                                                                                                                                                                                                                                                                                                                                                                                                                              99WO-US11407
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    96
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /label= unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   microbial infestations in plants and mammalian
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             39.6%; Score 152; DB 19; 34.0%; Pred. No. 1.4e-07;
                                                                                                                                                                                                                                            represent immunogenic polypeptides
                                                                                                                                                                                                                                 (нну8,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  18;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
               related to AIDS and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           sarcoma; AIDS; immunogen;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           169
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 590;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
            the sensitive
                                                                                                                                                                                                                            HHV8 plays
                                                                                                                                                                                                                                              derived from
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  28;
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RQRDPQQQYE-QCQKHCQRRETEPRHMQTCQQRCERRYEKEKRKQQKRYEEQQ--REDEE

Matches Query Match Best Local

Similarity

27.0%;

Score 103.5; Pred. No. 0.

.026;

DВ 18;

20;

Length

1898; 7;

Conservative

19;

Mismatches

Indels

Gaps

w

58

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RESULT
Y30795
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
                                      The present sequence represents a human trichohyalin (TRHY) protein. The protein is found in terminally differentiating epidermal tissue, and is involved in forming the structural architecture of such tissue. The trichohyalin protein is useful for forming a proteinaceous gel which may then be used for healing wounds, or in
Sequence
                                                                                                                                                    Human trichohyalin useful for forming a proteinaceous wound healing - \ensuremath{\mathsf{w}}
                                                                                                                                                                                                                                    Kim I, Chung S,
                                                                                                                                                                                                                                                                                                                                                                                                                                           Human; trichohyalin; TRHY; terminally differentiating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A human trichohyalin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Previous assays for HHV8 antibodies such as immunofluorescence assays, immunoblots and enzyme immunosassays lack the sensitivity and accuracy needed for reliable diagnosis of Kaposi's sarcoma. Further advantages of the assays are that reproducible results are obtained and the method
                                                                                                                         Disclosure; Fig 3A-W; 126pp; English.
                                                                                                                                                                                               N-PSDB; Z22301
                                                                                                                                                                                                                                                                                            30-APR-1993;
                                                                                                                                                                                                                                                                                                                                                                           US5958752-A.
                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                               breast implant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               25-NOV-1999 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Y30795
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Y30795 standard; Protein; 1898 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
                            breast implants
                                                                                                                                                                                                                                                               (USSH ) US DEPT HEALTH & HUMAN SERVICES
                                                                                                                                                                                                                                                                                                                      14-FEB-1997;
                                                                                                                                                                                                                                                                                                                                                 28-SEP-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              is suitable for rapid throughput and screening of samples economically.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              680
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      740 eqqqqde 746
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 62 ERMKEED 68
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2 RORDPOQQYEQCOKIICORRETEPRIMOTCOORCERRYEKEKRKOOKRYEEQQREDEEKYE 61
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                                                                                                                                                                                                          1999-561041/47
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 1898
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1162 AA;
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                                                                                                                                                                                                                                                                                          93US-0056200
                                                                                                                                                                                                                                                                                                                      97US-0800644
 AA;
                                                                                                                                                                                                                                      Park S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                27.9%;
31.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                         TRHY; protein; tissue structure; wound iating epidermal tissue; proteinaceous
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (TRHY)
                                                                                                                                                                                                                                    Steinert PM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   25;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 107; DB 21
Pred. No. 0.0071;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                        tissue structure; wound healing;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB 21;
                                                                                                                                                                                                                                       Lee
                                                                                                                                                                                                                                       S
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 1162;
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                                                                                                                                                                 gel that promotes
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                                                                   Matches
                                                                                  Query Match
Best Local
                                                                                                                                                                                                                                                        modified amino acid sequence compared to a corresponding wild-type SBP, and where expression of the modified SBP in a yeast assay system confers enhanced sucrose uptake compared to the corresponding wild-type SBP. The products of the invention can be used for producing transgenic plants which have modified sucrose uptake activity, particularly in developing seeds. Enhanced sucrose uptake activity in developing seeds may be desirable where it is an advantage to increase the carbohydrate content of the seed (e.g. where the seed is the primary plant material harvested, the seed is the primary plant material harvested.
                                                                                                                                                                                                               of the seed (e.g. where the seed is the primary plant material harveste such as soybean). In contrast, decreased sucrose uptake activity in seeds might be desirable where the vegetative material of the plant is harvested. The SBP regulatory regions confer specific or enhanced
                                                                                                                                                                                                                                                                                                                                                                                                  This sequence represents a novel sucrose binding protein, SBP2 isolated from Glycine max. This protein is used in a method resulting in the production of a modified plant sucrose binding protein (SBP) which has a production of a modified plant sucrose binding protein (SBP) which has
                                                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 7; Page 39-40; 58pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New modified plant sucrose binding proteins - used to develop transgenic plants which can have enhanced or decreased sucrose
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Glycine max
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          G. max
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         W90342 standard; protein; 409 AA
                                                                                                                                                                                                 expression in developing seeds and so may be used to express any
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 1999-070155/06
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (UNIW ) UNIV WASHINGTON STATE RES FOUND
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346 rregglrre 354
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                               12 QCQKHCQRRETEPRHMQTCQQRCERRYEKEKRKQQKRYEEQQREDEEKYEERMKEEDN 69
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WS,
qcqqqrqytesdkr---tclqqc----dsmkqerekqveeetrekeeehqeqheeeed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          sucrose binding protein; SBP2; sucrose uptake; transgenic plant;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         carbohydrate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     activity in developing seeds
                                                                                 Similarity
                                                                                                                                                                                   in developing seeds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Grimes HD;
                                                                                                                                                    409
                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      content; soybean.
                                                                                  26.7%;
36.2%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        protein
                                                                   18;
                                                                               Score 102.5; DB Pred. No. 0.0067;
                                                                   Mismatches
                                                                                                DB 20;
                                                                 12;
                                                                                              Length 409;
                                                               7;
 95
                                                               Gaps
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RESULT

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T. gondii immunogenic protein

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Best Local S
Matches 21
                                                                                                                                                                                                                                                                                                                                                                                         of the seed (e.g. where the seed is the primary plant material harvested, such as soybean). In contrast, decreased sucrose uptake activity in seeds might be desirable where the vegetative material of the plant is harvested. The SBP regulatory regions confer specific or enhanced
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     modified amino acid sequence compared to a corresponding wild-type SBP and where expression of the modified SBP in a yeast assay system conferentanced sucrose uptake compared to the corresponding wild-type SBP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 This sequence represents a novel sucrose binding protein, SBP2 isolated from Glycine max. This protein is used in a method resulting in the production of a modified plant sucrose binding protein (SBP) which has a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New modified plant sucrose binding proteins - used to develop transgenic plants which can have enhanced or decreased sucrosuptake activity in developing seeds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SBP1;
seed;
                                          24-SEP-1999 (first entry)
                                                                                                                                                                                                                                                                                                                              Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                     which have modified sucrose uptake activity, particularly in developing seeds. Enhanced sucrose uptake activity in developing seeds may be desirable where it is an advantage to increase the carbohydrate content
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             G. max SBP2 protein
                                                                                                      Y29039 standard; Protein; 611 AA
                                                                                                                                                                                                                                                                                                                                                                           expression in developing seeds and so may be used
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 13b; Page 37-38; 58pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      21-MAY-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            W90341;
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                                                                                                                                                                                                                                                                                                                                                           transgene in developing seeds
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The products of the invention can be used for producing transgenic plants
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 1999-070155/06
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nes 21; Conserv
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                                                                                                                                                                                                                                                                                                                               489 AA;
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Best Local
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                                                                                 Homo
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                                                                                                                                         Amino acid sequence of a human phosphorylation effector PHSP-16
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                                                                                                      immune
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19-NOV-1998;
22-DEC-1998;
12-JAN-1999;
                                                                                                                     Y68769-95 and Y68797-99 represent human phosphorylation effectors (PHSP), designated PHSP1-PHSP31 (the protein sequence for PHSP28 is not given in the specification). The sequences were isolated from CDNA libraries prepared from various human tissues. The PHSP proteins are useful for the diagnosis, treatment and prevention of proliferative disorders, immune disorders and neuronal disorders. The PHSP proteins form
                                                          pharmaceutical compositions which useful for treating or preventing disorders associated with decreased PHSP expression/activity. PHSP antagonists are useful for treating or preventing disorders associated
                                                                                                                                                                                                                                                                                Claim 1;
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14-OCT-1998;
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                                          increased PHSP
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DB; Z46153.
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Bandman O, Au-
DAM, Shih LL;
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98US-0113796.
99US-0173482.
99US-0229005.
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98US-0173482.
98US-0106889.
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                                        expression/activity.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Baughn MR;
H, Azimzai Y;
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Query Match

26

. 30 '

Score 101;

DB

21;

Length 1135;

Sequence

1135

ΑA;

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RESULT 13
Y55954
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Matches 30; Conserva
                                                                                                                                      2C4, KHS2, SULU1, SULU3, GEK2, PAK4 and PAK5. The proteins are used to identify agonists and antagonists, and to raise antibodies. The polynucleotides are useful in gene therapy protocols. The polynucleotides, polypeptides, antibodies, antagonists and agonists may be used to treat the polynucleotides and agonists may be used to treat the polynucleotides.
pelvic disease, multiple sclerósis, organ transplantation, myc
infarction, cardiovascular disease, stroke, renal failure, oxi
stress-related neurodegenerative disorders (e.g. amylotrophic
sclerosis, Parkinson's disease and Leigh syndrome), cancer,
                                                                                           unseases such as immune-related disorders and diseases (e.g. rheumatoid arthritis, artherosclerosis, chronic inflammatory bowel disease (e.g. Crohn's disease), asthma, osteoarthritis, promissis, atherosclerosis, rhightis authoromounts.
                                                                                                                                                                                                                                   invention relates to nucleic acid molecule encoding a kinase polypeptide selected from STLK2, STLK3, STLK4, STLK5, STLK6, STLK7, ZC1, ZC2, ZC3,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    oxidative stress related neurodegenerative disorder; Parkinson's disease; amylotrophic lateral sclerosis; Leigh syndrome; cancer; cardiomyopathy; ischemic disorder; inflammation; diabetes mellitus; fibrosis; mitosis; mesangial disorder; growth regulation; wound healing; T cell activation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  neuroprotective; cardiant; cerebroprotective; cytostatic; antidiabetic; vulnery; STE20; protein kinase; STLK2; STLK3; STLK4; STLK5, STLK6, STLK7, ZC1, ZC3, ZC4, KHS2, SULU1, SULU3, GEK2, PAK4; PAK5; antagonist; antibody; gene therapy; rheumatoid arthritis; artherosclerosis; asthma; inflammatory bowel disease; Crohn's disease; osteoarthritis; psoriasis;
                                                                                                                                                                                                                                                                                                                                                         Novel kinase-related polypeptides used for the of kinase-related diseases and disorders -
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Plowman G,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 rhinitis; autoimmunity; organ transplantation; multiple sclerosis; myocardial infarction; cardiovascular disease; stroke; renal failure;
                                                                                   rhinitis,
                                                                                                                                                                                                                                                                              This sequence represents a novel STE20-related protein kinase. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             13-APR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    21-OCT-1999
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Antirheumatic;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         18-FEB-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Y55954 standard; Protein; 1233
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    immunosuppressant.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           395 rqkrieqqkeqrrrleeqqrrerearrqqereqr--rreqeekrrleelerrrkeeeerr 452
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         -----EDEEKYEERMKEED 68
                                                                               autoimmunity, and organ transplantation, chronic inflammatory
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Martinez
                                                                                                                                                                                                                                                                                                                   Page 339-343; 387pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      antiarteriosclerotic; antiasthmatic; immunosupressive;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        antiathritic; antiinflammatory; antiallergic; osteopathic
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                                                                                                                                                                                                                                                                                                                                                                            diagnosis
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                                                                                                                                                                                                                                                                                                                                                                            and
                                          oxidative
                                                             myocardial
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                                                                                                                                                                                                                                                                                                                                                                            treatment
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RESULT
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches 30;
            This sequence represents a novel STE20-related protein kinase. The invention relates to nucleic acid molecule encoding a kinase polypeptide selected from STLK2, STLK3, STLK4, STLK5, STLK6, STLK7, ZC1, ZC2, ZC3, ZC4, KHS2, SULU1, SULU3, GEK2, PAK4 and PAK5. The proteins are used to
                                                                                                    Claim 11;
                                                                                                                                Novel kinase-related polypeptides used for the diagnosis and treatment of kinase-related diseases and disorders \,\cdot\,
                                                                                                                                                                                       N-PSDB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               rhinitis; autoimmunity; organ transplantation; multiple sclerosis; myocardial infarction; cardiovascular disease; stroke; renal failure; oxidative stress-related neurodegenerative disorder; Parkinson's disease; amylotrophic lateral sclerosis; Leigh syndrome; cancer; cardiomyopathy; ischemic disorder; inflammation; diabetes mellitus; fibrosis; mitosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 neuroprotective; cardiant; cerebroprotective; cytostatic; antidiabetic; vulnery; STE20; protein kinase; STLK2; STLK3; STLK4; STLK5, STLK6, STLK ZC1, ZC2, ZC3, ZC4, KHS2, SULU1, SULU3, GEK2, PAK4; PAK5; antagonist; antibody; gene therapy; rheumatoid arthritis; artherosclerosis; asthma; inflammatory bowel disease; Crohn's disease; osteoarthritis; psoriasis;
                                                                                                                                                                                                                                        Plowman G, Martinez R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             cardiomyopathies, ischemic disorders, inflammatory disorders, diabetes mellitus, fibrotic and mesangial disorders. The proteins may also be useful for cell growth regulation (e.g. in wound healing), T cell
                                                                                                                                                                                                                                                                                                            14-APR-1998;
                                                                                                                                                                                                                                                                                                                                           13-APR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Antirheumatic; antiathritic; antiinflammatory; antiallergic; osteopathic; antipsoriatic; antiarteriosclerotic; antiasthmatic; immunosupressive;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human ZC1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                mesangial disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       18-FEB-2000 (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                activation, mitosis control, and as immunosuppressants
                                                                                                                                                                                                                                                                        (SUGE-) SUGEN INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                immunosuppressant.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Y55931 standard; Protein; 1239
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         452 raeeekrrveregeyirrgleee 474
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2 RORDPOQQYEQCOK--HCORRETEPRHMOTCOORCERRYEKEKRK-----QOKRYEEQQR- 54
                                                                                                                                                                                     1999-611301/52
DB; Z40483.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             -----EDEEKYEERMKEED 68
                                                                                                                                                                                                                                                                                                                                                                                                                                                sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            rqkrieqqkeqrrrleeqqrrerearrqqereqr--rreqeekrrleelerrrkeeeerr 451
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Similarity
agonists
                                                                                               Page 269-274; 387pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                            98US-0081784
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 growth regulation; wound healing; T cell activation;
                                                                                                                                                                                                                                        Whyte
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             16; Mismatches
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Pred. No. 0.029;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 1233;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               18;
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RESULT 15
Y55932
XX Y55932
XX Y55932
XX Y55932
XX Antirh
KW Antips
KW Antips
KW RULINEI
KW CC1, 2
KW Inflan
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Antirheumatic; antiathritic; antiinflammatory; antiallergic; osteopathic; antiporiatic; antiatteriosclerotic; antiasthmatic; immunosupressive; neuroprotective; cardiant; cerebrortective; cytostatic; antidiabetic; vulnery; STE20; protein kinase; STLK2; STLK3; STLK4; STLK5, STLK6, STLK7; ZC1, ZC2, ZC4, KHS2, SULU1, SULU3, GEK2, PAK4; PAK5; antagonist; antibody; gene therapy; rheumatoid arthritis; artherosclerosis; asthma; inflammatory bowel disease; Crohn's disease; osteoarthritis; psoriasis; inflammatory bowel disease; Crohn's disease; osteoarthritis; psoriasis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 rhinitis, autoimmunity, and organ transplantation, chronic inflammatory pelvic disease, multiple sclerosis, organ transplantation, myocardial infarction, cardiovascular disease, stroke, renal failure, oxidative stress related neurodegenerative disorders (e.g. amylotrophic lateral sclerosis, Parkinson's disease and Leigh syndrome), cancer, cardiomyopathies, ischemic disorders, inflammatory disorders, diabetes mellitus, fibrotic and mesangial disorders. The proteins may also be useful for cell growth regulation (e.g. in wound healing), T cell activation, mitosis control, and as immunosuppressants.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            polynucleotides are useful in gene therapy protocols. The polynucleotides, polypeptides, antibodies, antagonists and agonists may be used to treat diseases such as immune-related disorders and diseases (e.g. rheumatoid arthritis, artherosclerosis, chronic inflammatory bowel disease (e.g. Crohn's disease), asthma, osteoatthritis, psoriasis, atherosclerosis,
           Plowman G,
                                                                                                                                                               14-APR-1998;
                                                                                                                                                                                                                                       13-APR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    oxidative stress-related neurodegenerative disorder; Parkinson's disease, amylotrophic lateral sclerosis; Leigh syndrome; cancer; cardiomyopathy; ischemic disorder; inflammation; diabetes mellitus; fibrosis; mitosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  rhinitis; autoimmunity; organ transplantation; multiple sclerosis; myocardial infarction; cardiovascular disease; stroke; renal failure;
                                                                                                                                                                                                                                                                                                               21-OCT-1999
                                                                                                                                                                                                                                                                                                                                                                                       WO9953036-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      mesangial disorder; growth regulation; wound healing; T cell activation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human ZC2 protein.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Y55932 standard; Protein; 1297 AA
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                                                                                       SUGEN INC.
               Martinez
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WPI; 1999-611301/52 N-PSDB; Z40484.

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CC invention relates to nucleic acid molecule encoding a kinase polypeptide conserved from STLK2, STLK4, STLK5, STLK6, STLK7, ZC1, ZC2, ZC3, CC ZC4, KHS2, SULU1, SULU3, GEK2, PAK4 and PAK5. The proteins are used to comply the polypeptides are useful in gene therapy protocols. The polynucleotides are useful in gene therapy protocols. The polynucleotides, antibodies, antagonists and agonists may be used to treat comply peptides, antibodies, antagonists and agonists may be used to treat comply peptides, antibodies, antagonists and adonists may be used to treat comply peptides, artherosclerosis, chronic inflammatory bowel disease (e.g. rheumatoid comply transplantation, stepases), asthma, osteoarthritis, psoriasis, atherosclerosis, chronic inflammatory bowel disease (e.g. chronic disease, multiple sclerosis, organ transplantation, myocardial confaction, cardiovascular disease, stroke, renal failure, oxidative stress related neurodegenerative disorders (e.g. amylotrophic lateral conformations, parkinson's disease and Leigh syndrome), cancer, cardiomyopathles, ischemic disorders, inflammatory disorders, diabetes conformation, mitosis control, and as immunosuppressants.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 This sequence represents a novel STE20-related protein kinase. The
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